

KUKHARSKAYA, E.V.; SKORIK, Yu.I.

Effect of thionyl chloride on the siloxane bond in an ultrasonic field. Dokl. AN SSSR 159 no.2:369-372 N '64. (MIRA 17:12)

1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR.  
Predstavleno akademikom I.V. Tananayevym.

L 29106-65 EWT(m)/EPF(c)/EWP(j)/T P5-4/Pr-4 RM

ACCESSION NR: AP5003963

S/0079/65/035/001/0106/0110

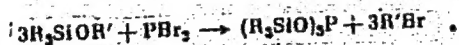
AUTHORS: Voronkov, M. G.; Skorik, Yu. I.

TITLE: Interaction of phosphorus trihalides with trialkyl alkoxysilanes and hexa-alkyl disiloxanes

SOURCE: Zhurnal obshchey khimii, v. 35, no. 1, 1965, 106-110

TOPIC TAGS: phosphorus, trialkyl alkoxysilane, hexa alkyl disiloxane, zinc chloride, iron compound, tin chloride, silicon compound, dimethylaniline, trialkylhalide silane, ethyl bromide

ABSTRACT: The silicon organic esters of phosphorous acid were obtained in 30% yields by simple distillation of mixtures of phosphorous tribromide with excessive amounts of trimethyl ethoxysilane, trimethyl butoxysilane, and triethyl ethoxysilane in the presence of catalysts (0.5-0.6 mol%  $ZnCl_2$ ,  $FeCl_3$ ,  $SnCl_2$ ). The reaction follows the formula



The obtained compounds are colorless liquids with a weak camphor odor, forming complexes with  $Cu_2Cl_2$  due to the presence of trivalent phosphorous. Silicon organic esters of ethyl phosphinic acid are formed simultaneously in the above reaction as

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OTHER: 007

NO REF SOV: 008

L 48579-65 EWT(m)/EPF(c)/EMP(j) Pc-4/Pr-4 RM

ACCESSION NR: AP5008803

UR/0080/65/038/003/0510/0515

36

AUTHOR: Skorik, Yu. I.; Kukharskaya, E. V.; Fedoseyev, A. D.; Klimova, K. P.

31

TITLE: Modification of chrysotile asbestos by organopolysiloxanes in an acoustic field

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 3, 1965, 510-515

TOPIC TAGS: asbestos, acoustic field, siloxane, carbon, nonmetal tensile strength

ABSTRACT: Chrysotile asbestos, which represents about 96% of the total asbestos mined in the USSR, is not acid resistant and absorbs large amounts of water, which impairs its technical value. Grafting of polyorganosiloxane radicals on the surface of the mineral considerably improves its chemical resistance and thermal and electric insulating properties. The grafting can be conducted in the medium of the agent to be grafted, or in its solutions, by means of an ultrasonic field.

Chemical analyses and IR spectra indicate the presence of carbon and of C-H bonds in the treated asbestos. Inasmuch as interplanar distances are

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not changed in the asbestos fibers after the treatment, according to the x-ray patterns, only surface modification of the fibers is assumed. The modification experiments were conducted with crude or graded chrysotile asbestos from the Bazhenovo deposit in the Urals, and with several organopolysiloxanes of various degrees of polymerization, as shown in Table 1.

Table 1. Carbon content in the modified asbestos samples (crude, treated for 1 hr)

Medium of ultrasonic treatment	Degree of polymerization of organopolysiloxane	Carbon content, %
Hexaethyldisiloxane	2	0.33
Diethylpolysiloxane fluid VKZh-94B (VTU MKhP. EU64-54*)	7-9	0.44
Dimethylpolysiloxane rubber SKT: 2% solution in benzene 10% " " "	5000-7000 " "	1.20 2.20

Card 2/5 \*Temporary Specifications of the Ministry of the Chemical Industry

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A mixture of asbestos and organopolysiloxane (or its solution) was subjected to ultrasonic vibrations with a frequency of 19—21 kc and an intensity of about 7 W/cm<sup>2</sup>. Flowing water was used to cool the system. The operation was carried out in 30-min periods, with 15-min interruptions for cooling. The treated samples were thoroughly washed with benzene or toluene in a Soxhlet extractor and dried at 150° C.

Carbon content, water adsorption, resistance to hydrochloric acid and tensile strength of the fibers were determined both for initial and modified materials. Water absorption changed from 156% to 25% for the ethylpoly-siloxane fluid-treated asbestos. Acid resistance is shown in Table 2.

Table 2. Effect of hydrochloric acid solutions on initial and modified chrysotile asbestos

Acid concentration in %	Weight losses of asbestos in %	
	Initial	Modified
25	54.2	36.8
10	26.6	16.2
5	17.3	9.0

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Tensile strength of the modified asbestos was not impaired by the treatment. The authors suggest that active particles, which are formed from both the asbestos and organopolysiloxane molecules as a result of the destructive effect of cavitation, recombine, producing the attachment of polyorganosiloxane radicals to silicon or magnesium atoms by means of an oxygen bridge. The possibility of formation of similar derivatives for kaolin was previously demonstrated by the authors.\* Partial degradation of organopolysiloxanes by cavitation caused by ultrasonic vibration is confirmed by a certain decrease in the viscosity of the modifying agent. The acquiring of hydrophobic properties by the ultrasonically treated asbestos is explained by the formation of true chemical bonds between the mineral and the modifying agent, inasmuch as the mere adsorption of an organopolysiloxane on asbestos does not render the latter hydrophobic, in spite of a higher carbon content in the case of the adsorption. The higher acid resistance of the modified asbestos is explained by the better hydrophobic properties. This work was conducted in the Institute of the Chemistry of Silicates im. I. V. Grebenshchikov, Academy of Sciences USSR.

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ACCESSION NR: AP5008803

Orig. art. has 1 equation, 1 graph, and 3 tables.

ASSOCIATION: Institut khimii silikatov imeni I. V. Grebenshchikova AN SSSR)  
(Institute of Silica Chemistry, AN SSSR)

SUBMITTED: 22Jun64

ENCL: 00

SUB CODE: MT, 00

NO REF SOV: 004

OTHER: 006

FSB, v. 1, no. 6

Card 5/5

S/139/59/000/05/007/026

E032/E114

AUTHORS: Moskalev, V.A., Filippov, M.F., Skorikov, A.G., and  
Skvortsov, Yu.M.

TITLE: A High Pulsed Current Stereobetatron /9

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,  
Fizika, 1959, Nr 5, pp 35-44 (USSR)

ABSTRACT: The Tomsk Polytechnical Institute has designed a 25 MeV stereobetatron such that the beam current at the target is of the order of a few amps during a fraction of a microsecond. The shape of the magnetic field was based on the theoretical studies reported in Refs 3-7. The present paper gives a general description of the various features of the betatron including the construction of the electromagnet, the supplies, the injection scheme, the extraction scheme, and the design of the two independent vacuum systems. The machine is now being built. It will be used to study electron interactions in the two crossed beams.

CRPD

1/1

There are 10 figures and 14 references, of which 12 are Soviet and 2 English.

ASSOCIATION: Tomskiy politekhnicheskii institut im. S.M. Kirova

SUBMITTED: December 27, 1958





ACCESSION NR: AR4022437

S/0058/64/000/001/A036/A037

SOURCE: RZh. Fizika, Abs. 1A331

AUTHORS: Moskalev, V. A.; Okulov, B. V.; Otrubyannikov, Yu. A.;  
Skvortsov, Yu. M.; Skorikov, A. G.; Shestakov, V. G.

TITLE: Results of starting a pulsed two-chamber stereo betatron  
for 25 MeV

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 50-53

TOPIC TAGS: stereo betatron, pulsed stereo betatron, two channel  
stereo betatron, ionization measurement, radiation dose power,  
optimal gamma ray intensity, stereo betatron radiation yield,  
bremsstrahlung pulse

TRANSLATION: A two-channel pulsed stereo-betatron for 25 MeV with  
increased radiation intensity was started and put in operation at

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ACCESSION NR: AR4022437

the Tomsk Polytechnic Institute in 1960. The electromagnet of the apparatus was fed with 2760 A current pulses at 7.5 kV and at a repetition frequency of 0.2 cps. The injection voltage and current were 300--400 kV and 1.6 A. A special system for dropping the electrons on the target made it possible to obtain bremsstrahlung pulses not exceeding 0.2 microsecond in duration. (For details see RZhFiz, 1963, 1A381, 382.) To register the radiation pulses, a standard "Kaktus" x-ray meter was used with an aluminum one-liter DIG-1 ionization chamber. It was impossible, however, to measure the radiation dose with the available instruments. Consequently, a rough qualitative estimate of the radiation dose power per pulse was made using a method in which a radiation pulse was transmitted through a lead layer of maximum possible thickness. It was found that at optimal gamma-radiation intensity a pulse from one accelerator chamber can pass through a lead 14-cm layer located 1 meter away from the accelerator target. This corresponds to an approximate dose of 50 roentgens. If it is assumed that during one acceleration cycle the

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ACCESSION NR: AR4022437

dose in the stereo-betatron beam amounts to only 5 roentgens, then the radiation yield of the stereo-betatron is 250--300 times larger than in existing betatrons of the same energy. The dimensions of the focus spot did not exceed 4 x 2 mm in the right-hand accelerator chamber, and 10 x 1 mm in the left. The number of accelerated electrons is  $\sim 5 \times 10^{11}$ . V. Voronin.

DATE ACQ: 03Mar64

SUB CODE: PH, SD

ENCL: 00

Card 3/3

GUBA, I.N., inzh.; SKORIKOV, A.M., inzh.

The D-432 machine for cutting expansion joints in hardened  
concrete. Stroi. i dor. mash. 7 no.9:15-16 S '62. (MIRA 15:10)  
(Road machinery)

LOPINS", I. I.

Storikov, I. I. "Automatic Control of Current Strength and Time in Galvanic  
Processes." Informatsionno tekhnicheskii zhurnal (Reference Technical Journal),  
1963, No. 16, pages 4-7, 1 figure.

SKORIKOV, K. G.

"Total Heats of Evaporation of Liquid Mixtures: I. New Method of Determination of Total Heats of Evaporation," Zhur. Fiz. Khim, 23, No. 11, 1949. Mbr. Lab. Thermochemistry, Chair Physical & Colloidal Chem., Rostov State Univ. im. V. M. Molotov, -c1949-.



5(4)

AUTHOR:

Skorikov, K. G.

SOV/76-33-2-42/45

TITLE:

Discussion (Diskussiia). Remarks on the Papers by  
P. V. Nemtsov [1,2] (Zamechaniya k stat'yam P. V. Nemtsova  
[1,2] )

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 501-502  
(USSR)

ABSTRACT:

It is shown that the four equations (1-4) which were suggested by Nemtsov for studying the ionization potentials of various ions are in principle based upon equation (1). This equation is an application of Newton's (N'yuton) first law (Ref 3). Proceeding from an equation by Dibrova (Refs 4, 5), which is represented in a form corresponding to the conditions given by Nemtsov, a series of equations are derived (6-17) and the following conclusions are drawn: the equation according to Newton (5) can be expressed in a general form (18) which can be considered the basic form for all four (1-4) of the equations set forth by Nemtsov. New principles are not to be found in the empirical formulae set forth by P. V. Nemtsov, and also not in their generalized form (18). There are 6 Soviet references.

Card 1/2

SKORIKOV, L.V. (st.Igumnovo)

Fundamentals of rhythmic operations. Zhel.dor.transp. 43  
no.4:81-82 Ap '61. (MIRA 14:3)

1. Zamestitel' nachal'nika stantsii Igumnovo Gor'kovskoy dorogi.  
(Railroads, Industrial)

ACC NR: AP6036429

SOURCE CODE: UR/0210/66/000/008/0101/0103

AUTHOR: Skorikova, M. F.

ORG: Sakhalin Complex Scientific Research Institute, s. Novo-Aleksandrovka  
(Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut)

TITLE: Determination of the density of the earth's crust from boundary velocity values

SOURCE: Geologiya i geofizika, no. 8, 1966, 101-103

TOPIC TAGS: seismic wave ~~propagation~~, rock elasticity, elastic wave, ~~propagation~~, earth crust, gravimetry, shock wave propagation, shock wave velocity / Sakhalin

ABSTRACT: A relationship is established between crustal density ( $\rho$ ) and boundary velocity ( $v_b$ ) that is considered useful in interpreting and correlating seismic and gravimetric data. Experiments conducted with rock samples from Sakhalin show that the longitudinal wave velocities measured in the samples correlated well with elastic-wave propagation velocities in the massif based on seismic field data obtained in situ. On the basis of the relationships

$$\begin{aligned}\rho &= 0.18 v_b + 1.823; \\ v_b &= 4.1\rho - 6.462\end{aligned}$$

Card 1/2

SKORIKOV, P.A.; KITCHENKO, G.A., master

Organization of material and technical procurement and work  
of the order bureau in the locomotive depot in Krasnodar.  
Elek. i tepl. tiaga 9 no.11:6-8 N '65.

(MIRA 19:1)

1. Lokomotivnoye depo Krasnodar.

TAMBOVTSEV, D.A.; SKORIKOV, V.M.; ZHELUDEV, I.S.

Production of bismuth titanate single crystals and some of  
their properties. Kristallografiia 8 no.6:889-893 N-D'63.  
(MIRA 17:2)

1. Institut kristallografii AN SSSR.

TAMBOVTSEV, D.A.; SAFRONOV, G.M.; TARENT'YEV, B.P.; SKORIKOV, V.M.

Stability of the operation of a reference voltage source using  
ferroelectric bismuth tetanate crystals. Elektrichestvo  
no.12:85-86 D '63. (MIRA 17:1)



ACCESSION NR: AP4019324

S/0105/64/000/003/0001/0005

AUTHOR: Tambovtsev, D. A. (Engineer); Terent'yev, B. P. (Doctor of technical sciences); Zheludev, I. S. (Doctor of physico-mathematical sciences); Skorikov, V. M. (Engineer); Kucherova, I. V. (Engineer)

TITLE: Voltage and current stabilization by ferroelectrics

SOURCE: Elektrichestvo, no. 3, 1964, 1-5

TOPIC TAGS: ferroelectric, ferroelectric crystal, voltage stabilizer, current stabilizer, ferroelectric voltage stabilizer, ferroelectric current stabilizer, reference voltage, bismuth titanate, barium titanate, triglycine sulfate

ABSTRACT: Procedures for the calculation of ferroelectric-stabilized reference-voltage sources are set forth, a new circuit for voltage stabilization is submitted, and some problems in using ferroelectrics for stabilization purposes are discussed. The new bridge-like circuit (see Enclosure 1) has the advantage

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ACCESSION NR: AP4019324

of a high output voltage that can reach one-third of the input voltage; also, a high degree of temperature compensation is possible. The experimentally determined effects of frequency and load on the performance of ferroelectric voltage stabilizers are reported. The possibilities of ferroelectric materials for current stabilization were also explored; a 1-cm<sup>2</sup> barium-titanate plate ensured a stable mean current of 50 ma at 50 cps; bismuth titanate and triglycine sulfate were also tested. Orig. art. has: 9 figures and 6 formulas.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography, AN SSSR)

SUBMITTED: 13Sep63

DATE ACQ: 27Mar64

ENCL: 01

SUB CODE: EE

NO REF SOV: 006

OTHER: 001

Card 2/32

L 49784-65 EPF(c)/EPR/ENG(j)/EWT(m)/EWP(b)/EWP(t) Pr-4/Ps-4 IJP(c) JD  
 ACCESSION NR: AP5009374 UR/0363/65/001/002/0232/0235

AUTHOR: Speranskaya, Ye. I.; Rez, I. S.; Kozlova, L. V.; Skorikov, V. M.; Slavov, V. I. 27

TITLE: Bismuth oxide-titanium dioxide system 26

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 2, 1965, 232-235 13

TOPIC TAGS: bismuth oxide, titanium dioxide, phase diagram, phase equilibrium

ABSTRACT: The bismuth oxide-titanium oxide system was studied using thermal analysis and x-ray diffraction. The work was done in platinum or platinum-rhodium crucibles. The phase diagram is shown in fig. 1 of the Enclosure. Three compounds are formed in this system:  $4\text{Bi}_2\text{O}_3 \cdot \text{TiO}_2 (\text{Bi}_8\text{TiO}_{14})$ ,  $2\text{Bi}_2\text{O}_3 \cdot 3\text{TiO}_2 (\text{Bi}_4\text{Ti}_3\text{O}_{12})$  and  $\text{Bi}_2\text{O}_3 \cdot 4\text{TiO}_2 (\text{Bi}_2\text{Ti}_4\text{O}_{11})$ . All of these compounds melt in an incongruent manner:  $\text{Bi}_8\text{TiO}_{14}$  at  $865^\circ\text{C}$ ,  $\text{Bi}_4\text{Ti}_3\text{O}_{12}$  at  $1210^\circ\text{C}$  and  $\text{Bi}_2\text{Ti}_4\text{O}_{11}$  at  $1275^\circ\text{C}$ . At  $670^\circ\text{C}$   $\text{Bi}_4\text{Ti}_3\text{O}_{12}$  undergoes a reversible phase transition. According to thermal analysis data the other two compounds undergo no conversions in the investigated temperature region.

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L 49784-65

ACCESSION NR: AP5009374

$\text{Bi}_8\text{TiO}_{14}$  is produced as a result of an exothermic reaction at  $830^\circ\text{C}$ . At  $835^\circ\text{C}$  a  $\text{Bi}_8\text{TiO}_{14}$  and  $\text{Bi}_2\text{O}_3$  eutectic mixture is crystallized, it contains 97%  $\text{Bi}_2\text{O}_3$  and 3%  $\text{TiO}_2$ . Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova  
Akademii nauk SSSR (Institute of General and Inorganic Chemistry, Academy of  
Sciences SSSR)

SUBMITTED: 23Oct64

ENCL: 01

SUB CODE: MT

NO REF SOV: 006

OTHER: 004

Card 2/3

L 49784-65

ACCESSION NR: AP5009374

ENCLOSURE: 01

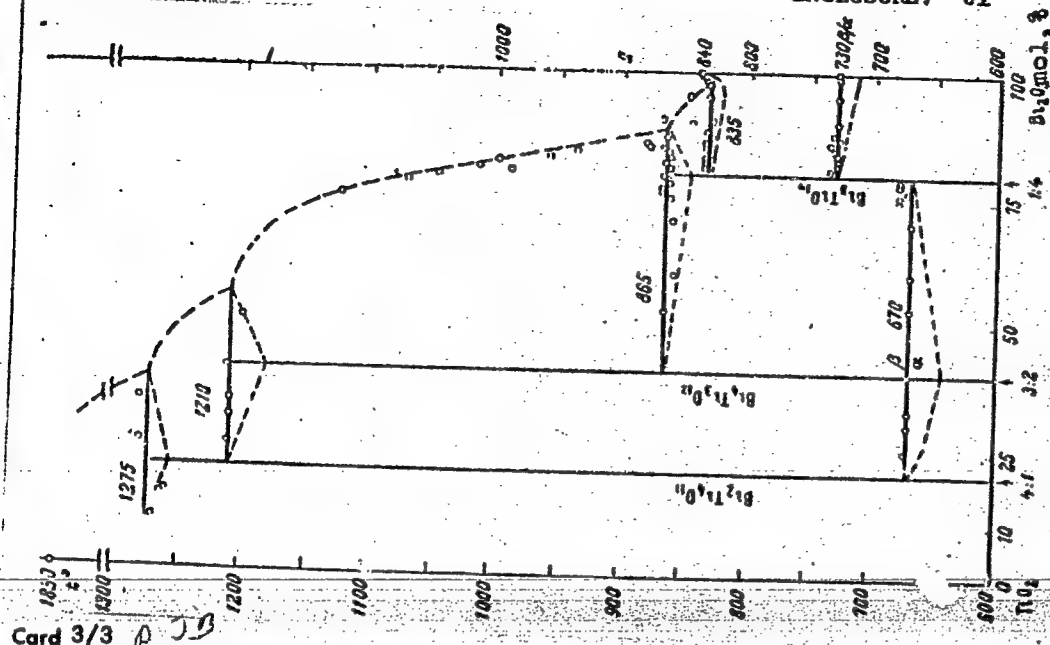


Fig. 1. Phase diagram of the  $\text{Bi}_2\text{O}_3$ - $\text{TiO}_2$  system.

SPERANSKAYA, Ye.I.; SKORIKOV, V.M.; RODE, Ye.Ya.; TEREKHOVA, V.A.

Phase diagram of the system bismuth oxide - ferric oxide. Izv.  
AN SSSR. Ser. khim. no.5:905-906 '65. (MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
AN SSSR.



SPERANSKAYA, Ye.I.; REZ, I.S.; KOZLOVA, L.V.; SKORIKOV, V.M.; SLAVOV, V.I.

Bismuth oxide - titanium dioxide system. Izv. AN SSSR. Neorg. mat.  
1 no.2:232-235 F '65. (MIRA 18:7)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova  
AN SSSR.

SVET-MOLDAVSKIY, G.Ya. (Moskva, B.Novinskiy per., d.3, kv.90); SKORIKOVA,  
A.S. (Moskva, ul. Kachalova, d.20, kv. 66)

Development of multiple cysts in rats after injection of Rous sarcoma  
virus [with summary in English]. op.onk. 3 no.6:673-677 '57.  
(MIRA 11:2)

1. Iz Gosudarstvennogo kontrol'nogo instituta suvorotok i vaktsin  
in. L.A.Tarasevicha (dir. - S.I.Didenko, nauchn. rukovod. - chlen-  
korrespondent AMN SSSR prof. N.G.Klyuyeva)

(SKIN NEOPLASMS, exper.

Rous sarcoma virus cysts, multiple subcutaneous in rats)

(VIRUSES  
same)

SVET-MOLDAVSKY, G.J.;SKORIKOVA, A.S. (Technical assistance: E. A. Kanygina)

The pathogenicity of Rous Sarsoma virus for mammals. Detection of virus and of antigenic substances of Rous Sarcoma in the cyst-haemorrhagic disease of Albino rats. Acta virol. Engl. Ed., Praha 4 no.1:47-51 Ja '60

1. Influenza and Measles Laboratory. The Tarasevich State Control Institute of Medical Biological Preparations, Moscow.  
(SARCOMA virology)



SKORIKOVA, N.F.

Anisotropy of the elastic properties of rocks in Sakhalin.  
Izv. AN SSSR. Ser. geol. 30 no.8:61-75 Ag '65.

(MIRA 18:9)  
1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut  
Sibirskogo otdeleniya AN SSSR, gorod Yuzhno-Sakhalinsk.

SKORIKOVA, O.a.

Sawflies (Hymenoptera, Tenthredinidae) which damage current  
and gooseberry bushes. Ent.oboz. 32:107-116 '52. (MLRA 7:1)

1. Kafedra obshchey entomologii Leningradskogo sel'skokhozyaystven-  
nogo instituta. (Sawflies)



SKORIKOVA, O.A.

Biology of sawflies (Hymenoptera, Tenthredinidae) which damage  
currants and gooseberries in Leningrad Province. Ent.oboz. 33:128-131 '53.  
(MLRA 7:5)

1. Kafedra obshchey entomologii Leningradskogo sel'skokhozyaystvennogo  
instituta. (Leningrad Province--Sawflies) (Sawflies--Leningrad Province)  
(Berries--Diseases and pests)

SKORIKOVA, O.A.

Protecting berry crops against injurious insects. Biol. v shkole  
no.2:64-66 Mr-Apr '59. (MIRA 12:4)

1. Leningradskiy sel'skokhozyaystvennyy institut.  
(Entomology--Study and teaching)  
(Berries--Diseases and pests )

BEY-BIYENKO, Grigoriy Yakovlevich; SKORIKOVA, Ol'ga Aleksandrovna; AKHREMOVICH,  
M.B., red.; CHUNAYEVA, Z.V., tekhn. red.

[Laboratory exercises in entomology] Laboratornye zaniatiia po  
entomologii. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 253 p.  
(Entomology—Laboratory manuals) (MIRA 11:8)

SKORIKOVA, Ol'ga Aleksandrovna; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V.,  
tekhn.red.

[Sawflies, pests of fruits and berries] Pilil'shchiki, vrediashchie plodovo-iagodnym kul'turam. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 72 p. (MIRA 14:7)  
(Sawflies)

BATIASHVILI, I.D.; BEY-BIYENKO, G.Ya.; BOGDANOV-KAT'KOV, N.N.; GERASIMOV, B.A.; GILYAROV, M.S.; DMITRIYEV, G.V.; ZVEREZOMB-ZUBOVSKIY, Ye.V.; ZIMIN, L.S.; KOLOBOVA, A.N.; MEDVEDEV, S.I.; MISHCHENKO, A.I.; PETROV, A.I.; RYABOV, M.A.; SAVZDARG, E.E.; SELIVANOVA, S.N.; ~~SKORIKOVA, O.A.~~; TROPKINA, M.F.; SHAPOSHNIKOV, G.Kh.; SHCHEGOLEV, V.N., prof., doktor sel'skokhoz.nauk; ESTERBERG, L.K.; YAKHONTOV, V.V.; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[Classification of insects on the basis of damage to crops] Opre-  
delitel' nasekomykh po povrezhdeniyam kul'turnykh rastenii. Izd.4,  
perer. i dop. Leningrad, Gos.izd-vo sel'khoz.lit-ry, 1960. 607 p.  
(MIRA 14:1)

(Insects, Injurious and beneficial)

SKORIKOVA, O.A.

Biology of Pamphilus balteatus Fall. (Pamphilidae, Hymenoptera)  
in Leningrad Province and its control. Zool. zhur. 39 no. 10:1511-  
1514 0 '60. (MIRA 13:11)

1. Department of General Entomology, Leningrad Agricultural  
Institute, town of Pushkin, Leningrad Region.  
(Leningrad Province--Sawflies)  
(Roses--Diseases and pests)

SKORIKOVA, Ye., tlachikha

We will complete our assignment ahead of time. Sov.profsoliuzy  
7 no.10:13-14 My '59. (MIRA 12:9)

1. Tashkentskiy tekstil'nyy kombinat imeni Stalina.  
(Tashkent--Textile industry--Labor productivity)

MARKH, A.T.; SKORIKOVA, Yu.G.

Studying the factors of color change in drying prunes. Izv. vys.  
ucheb. zav.; pishch. tekhn. no. 2:18-23 '58. (MIRA 11:10)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti, Kafedra biokhimii i mikrobiologii.  
(Prune--Drying)



MARKH, A.T. : SKORIKOVA, Yu.G.

Change in the chemical composition of plums during drying.  
Kons. i ov. prom. 13 no.10:22-24 0 '58. (MIRA 11:10)

1.Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti.

(Plum--Drying)

SKORIKOVA, Yu. G., Gen Tech Sci -- (disc) "Changes in the qualitative indicators of fruit in the process of drying and preserving ~~and~~ <sup>and</sup>." Odessa, 1959. 19 pp with graphs (Min of Higher Education USSR. Odessa Technological Inst of Food and Refrigeration Industry. Chair of Biochemistry and Microbiology). 150 copies (KL, 36-59,105)

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MARKH, A.T.; SKORIKOVA, Yu.G.

Biochemical changes in apples during drying. Izv.vys.ucheb.zav.;  
pishch.tekh. no.1:37-44 '59. (MIRA 12:6)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti, kafedra biokhimii i mikrobiologii.  
(Apple--Drying)

MARKH, A.T.; SKORIKOVA, Yu.G.

Chemical changes in dried fruit during storage. Izv.vys.ucheb.  
zav.; pishch.tekh. no.5:42-50 '59. (MIRA 13:4)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti, kafedra biokhimii i mikrobiologii.  
(Fruit, Dried--Storage)

MARKH, A.T., doktor tekhn.; SKORIKOVA, Yu.G., aspirant

Biochemical changes in plums during drying. Trudy OTIPIKhP 9 no.2:  
39-51 '59. (MIRA 13:9)

(Plum-- Drying)

(Prune)

SKORIKOVA, Yu.G., aspirant

Biochemical characteristics of plums from the Sochi Region. Trudy  
OTIPIKhP 9 no.2:77-95 '59. (MIRA 13:9)  
(Sochi-- Plum)

MARKH, A.T.; SKORIKOVA, Yu.G.

Some distinctive aspects of the drying of plums. Kons. i ov. prom.  
14 no.7:11-13 JI '59. (MIRA 12:9)

1.Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti.

(Moldavia--Plum--Drying)

MARKH, A.T.; ZOZULEVICH, B.V.; SKORIKOVA, Yu.G.; RASKINA, N.A.

Vitamin enrichment of food concentrates. Kons.i ov. prom. 16 no.2:  
21-23 F '61. (MIRA 14:4)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti.  
(Food, Concentrated) (Vitamins)



SKORIKOVA, Yu.G.; KROTOV, Ye.G.

Modification of polyphenol OH groups during fruit drying. Izv.-  
vys.ucheb.zav.; pishch.tekh. 2:35-40 '62. (MIRA 15:5)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosti, kafedra biokhimii i mikrobiologii.  
(Fruit, Dried) (Phenols)

SKORIKOVA, Z. D.

4

Chem

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
General and Physical Chemistry

System with completely closed solubility curve. Mutual solubility of hexamethylenimine and water. E. N. Zil'berman and Z. D. Skorikova. *Zhur. Obshchei Khim.* 23, 1629-30(1953);—At room temp, hexamethylenimine (I) is completely miscible with water (cf. *Zhur. Fiz. Khim.* 26, 1458(1952)). At higher temp. 2 conjugate solns. are formed and the soly. curve is a completely closed system with a max. and min. consolute points at 39.5 and 22.5% (I) at 228 and 66.9°, resp. Min. soly. of I, 6.7%, is at 100-160°; min. soly. of water in I, 29.7%, is at 140-180°.  
I. Bencowitz

mid

SKORIN, I. Ye.

Central Sci. Research Inst. for Disinfection, NKZDRAVA, People's  
Commissariat Public Health, (-1944-)

"On the bactericide action of K-soap and K-preparation."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 3, 1944.

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
<p>SKORIN, L. F.</p> <p>Protective Sanitation - Chemistry Lab, NKZDRAVA SSSR.</p>		<p>Chemotherapy of the typhus exanthematicus 1. E. Skorn and O. S. Korshunova. <i>Zhur. Mikrobiol. Epidemiol. Immunobiol.</i> 1944, Nos. 10/11, 77-82. White mice were inoculated intranasally with a brain emulsion of guinea pigs infected with the virus of typhus exanthematicus, strain Otto. After several passages through mice in this way a strain of virus was obtained which affected the lungs of the mice. Such mice were well adapted for chemotherapeutic expts. A number of sulfanilamides and related compds. were tested. Of these the following compds. were deemed worthy of further investigation, especially compds. consisting of sulfonamides combined with dyes: <i>N</i><sup>1</sup>-undecylenesulfanilamide, <i>N</i><sup>1</sup>-heptylsulfanilysulfanilyloxamide, <i>N</i><sup>1</sup>-butyrylsulfanilysulfanilyloxamide, <i>N</i><sup>1</sup>-butyryl-<i>N</i><sup>1</sup>-phenylaminosulfanilamide, 4-amino-1-sulfoguanylbenzene, 4,4'-dibutylaminodiphenyl sulfone, <i>N</i><sup>1</sup>-butyryl-<i>N</i><sup>1</sup>-diethylsulfanilylsulfanilamide, <i>N</i><sup>1</sup>-sulfanilylsulfanilamide, dithiohydroquinone, 4,4'-divalerylaminodiphenyl sulfone, 4,4'-diacetyldiphenyl sulfone. D. I. Macht</p>	
<p>ASS-514 METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>11 H</p>	

166T50

USSR/Medicine - Brucellosis  
Vaccines

Sep 50

"Extraction of a Living Microbic Culture of Brucella  
From Killed Semiliquid Formol Antibrucellosis Vac-  
cine," I. Ye. Skorin, Cand Biol Sci, M. S. Shaburov,  
M. N. Popov'yants, Candidates Vet Sci, Div of Bio-  
chem, All-Union Inst of Exptl Vet Med  
"Veterinariya" No 9, pp 28-30

Conducts series of tests on properties of a living  
microbic culture isolated by G. M. Bosh'yan's me-  
thod from killed semiliquid formol antibrucellosis  
vaccine, series No 31, and finds them identical to

USSR/Medicine - Brucellosis (Contd)

Sep 50  
166T50

Brucella melitensis. Concludes formalin in con-  
centrations used to prepare subject vaccine does  
not kill causal agents of the disease but merely  
inactivates them, changing their form and proper-  
ties, and under specific conditions this changed  
but living culture from which killed vaccine is  
prepared can acquire form and properties inher-  
ent in original strain. Head, Div of Biochem:  
Dr G. M. Bosh'yan.

166T50

SKORIN, I. Ye.

Full translation c 7/53

SKORIN, I. ~~Y.~~<sup>E.</sup>, Cand. Biol. Sci.

All-Union Inst. of Experimental Veterinary Medicine

"On the Microbic forms of the virus of foot and mouth."

SO: Veterinariia 29(7), 1952, p. 20

Full translation c 7/53

SKORIN, I.Ye., kand.biol. nauk; SHUBIN, V.A., kand.vet.nauk.

Foot-and-mouth disease in saigas. Veterinariia 35 no.10:49-54 O '58.  
(MIRA 11:10)

1.Vsesoyuznyy institut eksperimental'noy veterinarii.  
(Foot-and-mouth disease) (Saiga--Diseases and pests)

SKORIN, P. F., PIRTSKHALAYSHVILI, S. KH.

Tea Machinery

New tea harvester. Sel'khoz mashina, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified



SKORINA, L.

In the cultural center for passengers at the Vrutky railroad station.  
p. (2) of cover.  
37th anniversary of the Great October Revolution. p. 277.  
ZELEZNICE, Prague, Vol. 4, no. 11, Nov. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,  
June 1956, Uncl.

CH

15

The soils of the Chernovitsk region of the Ukrainian S.S.R. S. A. Skorina. *Pochvovedenie* (Pedology) 1949, 25-31. —The pH of a neutral salt ext., hydrolytic acidity, exchangeable Ca and Mg, available Al, org. matter content, anhyd.  $P_2O_5$  of a no. of profiles of brown earths, forest st. ppe, and podzolized soils are recorded. A discussion of each profile in relation to its chem. characteristics is given. J. S. Jaffe

SKORINA, S. A.

VERNANDER, N.B.; GODLIN, M.M., professor, doktor sel'skokhozyaystvennykh nauk; SAMBUR, G.N.; SKORINA, S.A.; KONOVALOV, M.T., otvetstvennyy redaktor; AKSENOV, G.G., tekhnicheskyy redaktor; LIMANOVA, M.I., tekhnicheskyy redaktor

[Soils of the Ukrainian S.S.R.] Pochvy USSR. Pod red. M.M.Godlina.  
Kiev, Gos. izd-vo selkhoz. lit-ry, USSR, 1951. 326 p. [Microfilm]  
(Ukraine--Soils) (MLRA 7:10)  
(Soils--Ukraine)

SKORINA, S. A.

Soils of the steppe adjoining the Black Sea. G. N. Sambur, S. A. Skorina, and I. A. Vlasjuk (Ukrain. Sci. Research Inst. Socialist Agr.). *Pochvovedenie* 1953, No. 8, 1-19.—A discussion of the different phases of saline soils in the region, giving their chem. characteristics (org. matter, exchangeable Ca, Mg, and Na, pH, and sol. N, P, K, and H<sub>2</sub>O-sol. Ca, Mg, Cl, SO<sub>4</sub>, HCO<sub>3</sub>) and the effects of these on suitability for irrigation. J. S. Joffe

DMITRIYENKO, P.A., doktor sel'skokhozyaystvennykh nauk.; SKORINA, S.A.

Organize the study of soil on collective and state farms. Zemledelie  
4 no.10:116 0 '56. (MIRA 9:11)  
(Soils)

RYBAK, V.N., kand.sel'skokhozyaystvennykh nauk; SKORINA, S.A.

First results of a soil survey in the Ukraine. Zemledelia 6 no.9:  
86-90 S '58. (MIRA 11:9)  
(Ukraine--Crops and soils)

SKORINA, S.I. [Skoryna, S.O.], starshiy nauchnyy sotrudnik

Soil maps. Nauka i zhyttia 9 no.12:36-38 D '59. (MIRA 13:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.  
(Soils--Maps)

SKORINA, Sergey Aleksandrovich [Skorina, S.O.]; BELYAKOV, M.I. [Bieliakov, M.I.], red.; NEMCHENKO, I.Yu., tekhn.red.

[Knowledge of soil is the basis for its correct use] Znannia  
hruntiv - osnova pravyl'noho ikh vykorystannia. Kyiv, Derzh.  
vyd-vo sel's'kohospodars'koi lit-ry URSR, 1961. 48 p. (MIRA 15:4)

(Crops and soils)



SKORITSKAYA, V.M. Cand Med Sci -- (diss) "Comparative  
Anatomy of the *marginal truncus sympathicus*  
of the Lumbar Region of ~~Man and certain Vertebrates.~~" ←  
Chelyabinsk, 1958, 19pp (Min of Health of RSFSR.  
Chelyabinsk State Med Inst.), 250 copies (KL, 41-58, 122)

*Human lungs and other vertebrate animals.*

- L -

USSR / Human and Animal Morphology (Normal and  
Pathological). Nervous System. Peripheral  
Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16954

Author : Skoritskaya, V. M.

Inst : Not given

Title : Comparative Anatomy of the Marginal Sympathetic  
Trunk of the Lumbar Region of Man and Some  
Vertebrates

Orig Pub : V sb.: Izbr. vopr. morfol. nervn. sistemy i  
krovoobrazh. nervov. Chelyabinsk, 1958, 58-68

Abstract : Thirty-four specimens of the marginal  
sympathetic trunk (MST) of man and 176  
specimens of MST of animals from cadavers of  
10 sea urchins, 1 carp, 1 carassius, 16 frogs,  
8 lizards, 2 turtles, 7 wild ducks, 2 domestic

Card 1/3

57

L 12282-63

S/081/63/000/005/039/075

AUTHOR: Goldowa, D., Golda, K., Golda, J. and Skorka, L. 2/4/

TITLE: A method for producing filtering pulps

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 321, abstract 5I45  
(Polish patent 45712 8 - 13 - 62)

TEXT: The quality of filtering pulps from asbestos fibers (possibly made with addition of plant fibers, e.g., cotton) is improved in that asbestos fiber undergoes (in its dry state) processing in a power mill under 200-600 kg/cm<sup>2</sup> pressure, furnished with 1-5 mm mesh sieves for a period of time which depends on the size of the asbestos fiber and the desired size of the fibers of the filtered pulp. The plant fibers are introduced into the pulp in the course of the crushing process. G. Stelikh.

[Abstractor's note: Complete translation]

Card 1/1

SKORNIK, A.V.; PINKOVSKIY, Ya.I.

Explosion-proof MA36 electric motors. Mash. i neft. sbor. no.7:  
3-7 '64. (MIRA 17:11)

1. Khar'kovskiy elektromekhanicheskiy zavod i Gosudarstvennyy  
nauchno-issledovatel'skiy i proyektnyy institut neftyanogo ma-  
shinostroyeniya.

YAKUBOVSKIY, A.M., mashinist-instruktor; PROLENKO, M.P., mashinist-instruktor;  
YAROSHEVICH, V.S., mashinist; YERKIMBAYEV, Ye., mashinist;  
BABANAZAROV, A.M., mashinist; FEDOSOV, D. Ye.; SKORKIN, I.S.

Useful book "Reference book for a diesel locomotive engineering by  
V.M.Terekhov, I.I.Murzhin. Reviewed by A.M.Iakubovskii and others.  
Elek.i tepl.tiaga 4 no.2:47-48 F '60. (MIRA 13:6)

1. Master zagotovitel'nogo tsekha, depo Chu, Kazakhskaya doroga  
(for Fedosov). 2. Master tsekha bol'skogo periodicheskogo remonta,  
depo Chu, Kazakhskaya doroga (for Skorkin).

(Diesel locomotives)

(Terekhov, V.M.)

(Murzhin, I.I.)

BABOKIN, I.A., redaktor; BALBACHAN, Ya.I., redaktor; BARABANOV, F.A., redaktor; BUCHNEV, V.K., redaktor; VLADIMIRSKIY, V.V., redaktor; GRIGOR'YEV, S. Ye., redaktor; DOKUKIN, A.V., redaktor; ZHABO, V.V. redaktor; ZADEMIDKO, A.N., redaktor; ZAITSEV, A.P., redaktor; IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY, S.M., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I., redaktor; SIRYACHENKO, F.N.; redaktor. SKOCHINSKIY, A.A., redaktor; STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor; SOBOLEV, G.G., redaktor; TERPITOREV, A.M., redaktor; KHUDOGOVTSYEV, N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1951. 207 p. (MLRA 9:1)

1. Russia (1923- U.S.S.R) Ministerstva ugol'noy promyshlennosti. (Coal mines and mining-Safety measures)

SKORIN, K. I., Eng.

Electric Motors, Induction

Synchronizing asynchronous electric motors at the mines of the "Stalinugol" combine.  
Elektrichestvo no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

ENL. 111, . . . : ENL. 1.1.

Electric Utilities - Rates

Concerning the article "Rate setting after the increase of the capacity coefficient (coeff.) in industry." From. energ. 9, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952, UNCLASSIFIED.



SKORKIN, K. I.

Problems of district heating in the coal mining industry. Ugol'  
30 no.10:9-13 0 '55. (MIRA 8:12)

1. Ministerstvo ugol'noy promyshlennosti SSSR  
(Coal mines and mining) (Heating from central stations)

SKORKIN, L. V.

Purification of alkaline solutions of poly(ethylene oxide)  
resins. L. V. Skorkin, M. Kh. Gluzman, S. I. Dachev-  
skaya, and V. M. Bodnya. U.S.S.R. 105,505, May 25,  
1957. Bases are removed by electrolysis. M. Huseh

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DM  
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KOLESNIKOV, D.G.; CHERNOBAY, V.T.; PROKOPENKO, A.P.; BOZHKO, N.G.;  
SKORKIN, L.V.

The alkaloid reserpine from the roots of Rauwolfia serpentina  
Benth. Med.prom. 13 no.4:40-43 Ap '59. (MIRA 12:6)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-  
cheskiy institut.

(RESERPINE)

SKORKIN, N.A.

Semiautomatic machine for washing spindle seats. Mashinostroitel'  
no.3:8 Mr '64. (MIRA 17:4)

SKORKIN, N.V.; BROVMAN, M.Ya.

Efficient grooving for continuous blooming mills. Metallurg 9 no.7:  
26-27 J1 '64. (MIRA 17:8)

1. Yuzhno-Ural'skiy mashinostroitel'nyy zavod.

VIDRIN, V.N.; BROVMAN, M.Ya.; SKORKIN, N.V.

Measuring tension in continuous rolling mills. Izv. vys. ucheb.  
zav.; chern. met. 6 no.6:100-105 '63. (MIRA 16:8)

1. Chelyabinskiy politekhnicheskii institut.  
(Rolling mills)

BROVMAN, M.Ya.; GONZALEV, S.M.; MIRASHKO, L.I.; RUBINSHTAYN, Yu.Ye.;  
SKORKIN, N.V.; ARSHANSKIY, M.I.; PIN'ZHAKOV, G.P.

Results of a year's operation and investigation of an oxygen-  
blown converter with a 100 ton (Mg) capacity. Stal' 25 no.6:  
508-511 Je '65. (MIRA 18:6)

1. Yuzhno-Ural'skiy mashinostroitel'nyy zavod i Nizhne-Tagil'skiy  
metallurgicheskiy kombinat.

ACC NR: AP7003:

(A) SOURCE CODE: UR/0133/67/000/001/0053/0057

AUTHOR: Brovman, M.Ya.; Skorkin, N.V.; Shumkov, V.D.; Vydrin, V.N.;  
Dodin, Yu.S.; Makarov, V.G.; Rimen, V.Kh.; Lind, I.K.

ORG: Yuzhuralmashzavod; Chelyabinsk Polytechnic Institute  
(Chelyabinskiy politekhnicheskiy Institut); Chelyabinsk Metallurgical  
Plant (Chelyabinskiy metallurgicheskiy zavod)

TITLE: Investigation of a new 900/700/500 continuous blooming mill

SOURCE: Stal', no. 1, 1967, 53-57

TOPIC TAGS: metal rolling, hot rolling, rolling mill, continuous  
rolling mill/900-700-500<sub>A</sub> mill

ABSTRACT:

ROLLING

The new 900/700/500 continuous blooming mill, designed and built at the  
Yuzhno-Ural'skiy Machine Building Plant, is in operation at the Chelyabinsk  
and Krivorozhskiy Metallurgical Plants. The new mill is designed for  
rolling square blooms with a cross section of 80 x 80—170 x 170 mm and  
flat slabs from 370 x 370 mm carbon and alloy steel blooms weighing up to  
9 tons. Provision is also made for rolling round bars 105, 120, 140, 150,  
170 and 220 mm in diameter. The mill is designed to produce 5.5 million  
tons of rolled stock per year; the metal delivery rate at the last stand

Card 1/2

UDC: 621.771.26



SKORIKINA, N.F.

Clinical picture of the tongue in gastritis and peptic ulcer  
of the stomach and the duodenum. Nauch. trudy Kaz. gos. med.  
inst. 14:547-548 '64. (MIRA 18:9)

1. Kafedra khirurgicheskoy stomatologii (zav. - prof. Ye. A.  
Dorazheva) Kazanskogo meditsinskogo instituta.

SKORKINA, N.F., assistant

Morphology of the gum tissues in patients with peptic ulcer  
of the stomach and duodenum. Vop. obshchei stom. 17:90-91  
'64.

State of the innervation and vascular apparatus of the  
gums in dogs with experimental peptic ulcer. Ibid.:92-93  
(MIRA 18:11)

SKORKO, E.  
ca

PROCESSED AND PREPARED BY  
Absorption of iodine vapor at high temperatures.  
Eugeniusz Skorko, *Acta Phys. Polonica* 3, 191-6(1934)  
(in English). Absorption spectra of tri-iodide I were  
investigated in the range between 5000 and 2900 Å. at  
temps. ranging from 800° to 1100°, and vapor pressures  
ranging from 0.13 to 1000 mm. Hg. At  $t = 780^\circ$  and  
 $p = 100$  mm continuous absorption is observed from 5000  
to 4300 and from 8100 to 2900 Å; an increase of  $p$  to

1 atm. broadens the absorption up to 4000 Å. and in-  
tensifies the same. At  $t = 840^\circ$  and  $p = 280$  mm. a new  
continuous band (I) appears with an abrupt border on the  
long-wave side at 3427 Å. A rise of  $t$  causes intensified  
absorption and appearance of a new band (II) with a  
limit at 3263 Å. Further increase of  $t$  up to 1050° leads  
to appearance of many close diffuse bands on the con-  
tinuous background of I and II, which extend from 3427  
to 2974 Å. II appears at  $t = 1050^\circ$  and  $p = 150$  mm.  
Max. of I and II are close to the long λ edge of the band.  
Bands I and II correspond to known emission bands of  
I mols. With the use of a H lamp as a source of light  
new continuous absorption bands are conspicuous at  
2890, 2881, 2773 and 2710 Å. which agree with emission  
bands observed by Fruth (*C. A. 22, 2315*). I. W.

ASW-SEA DETAILLOGICAL LITERATURE CLASSIFICATION

SKORKO, EUGENIUSZ

# POL

The optical properties of the chrysene and anthracene crystals colored by naphthalene. Eugeniusz Skorko. *Studia soc. sci. Torunensis* (Torun, Poland) *Sect. A Math. Phys.* 1, No. 4, 37-56(1949)(English summary).--The polarization of fluorescence of anthracene and chrysene crystals colored by naphthalene was studied to verify results derived by Jablonski in his theory of ordered aggregates (cf. *Acta Phys. Polon.* 4, 371(1935); *C.A.* 29, 7312\*). The obtained values were 20% for naphthalene in chrysene and 31% for naphthalene in anthracene crystals. These values depend neither on the state of polarization nor on the wave length of the exciting light. This would indicate, according to Jablonski's theory, that all naphthalene mols. contained in colored chrysene and anthracene crystals are perfectly ordered. Exptl. study of the ratio of absorption coeffs. for the principal directions of vibration of light in the above crystals revealed values in perfect agreement with Jablonski's theory. S. Nowinska

EXCERPTA MEDICA Sec 9 Vol 13/10 Surgery Oct. 59

5496. (1218) REMARKS CONCERNING OSSEOUS SUTURE AND OTHER TYPES OF INTERNAL FIXATION OF BONES IN FRACTURES IN THE LIGHT OF OWN MATERIAL - Uwagi dotyczące szwu kostnego oraz innego rodzaju zespolenia w złamaniach w świetle własnego materiału - Skorko J. Oddz Chir. Urazowej Szpit. Miejsk., Gliwice - CHIR. NARZAD. RUCHU 1958, 23/6 (549-554) Tables 1

On the basis of 570 cases collected during about 10 yr. the author discusses the results of internal fixation in fractures of bones by means of wire loops, Küntschner's nails and Kirschner's wires. Indications and contraindications are presented and the technical details influencing the therapeutic result are discussed. (IX, 19)

25627

P/047/61/012/003/002/003  
D247/D302

158500

AUTHORS: Kryszewski, M. and Skorko, M.  
TITLE: Basic problems of high polymer physics  
PERIODICAL: Postępy fizyki, v. 12, no. 3, 1961, 303-331

TEXT: The authors summarize the basic theory of physics of polymer solutions and the methods of their investigation. Physical properties of a polymer can be expressed as a function of two dimensions:  $\sqrt{h^2}$  - the average length ( $h$  = distance between the ends of a chain) and  $\sqrt{R_0^2}$  - the radius of gyration. Assuming a macromolecule model with a constant valency bond length  $a$  and an angle  $\theta$  between the two consecutive bonds the formula  $h^2 = Za^2$  where  $Z$  = number of bonds in the chain, can be deduced. This can also be obtained from the analysis of probability of the macromolecule structure using projectiles. The review of the statistics of structure of high isomers includes many references to T.M. Birshteyn and O.B. Ptitsyn (Ref. 21: Fiz. Khim., 26, 1215, (1952)) and O.B. Ptitsyn and Y. A. Sharonov (Ref. 22: Zh. Tekh. Fiz., 27, 2744, 2762 (1957)) who applied the method

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P/047/61/012/003/002/003  
D247/D302

Basic problems of high polymer physics

of rotational isomerism for obtaining the value  $\bar{h}^2$  for isotactic and syndiotactic chains. A. Peterlin (Ref. 25: Coll. Czechosl. Chem. Comm., 22, 84 (1957)) assumed that solutions of finite concentrations can be treated as real gases. His theory was applied in interpreting results from the light dispersion and viscometer methods for measuring macromolecules' dimensions. Methods for determining molecular weight (mol. wt) of a high polymer include: 1) The osmosis method, based on Van't Hoff's law. Recently semipermeable membranes were prepared from polyvinyl alcohol and polychloro-tri-fluoroethylene (Kel-F). Y.Y. Zhukov and A.V. Lebedev (Ref. 49: Koll. Zhur., 10, 423 (1948)) used the dynamical method for measuring the osmotic pressure (o.p.): the initial level of the liquid in the capillary is arranged to be somewhat below the expected equilibrium level and the speed at which the meniscus falls is calculated from readings taken at 1 minute intervals for 10 to 20 mins. The experiment is then repeated starting with the liquid level below the equilibrium position. Both speed-time curves have a common asymptote which determines the equilibrium level in the capillary. Most accurate results are obtained for polymers with mol. wt. from 40,000 - 500,000.

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D247/D302

Basic problems of high polymer physics

2) The dispersion method. Two cases are considered: when the dispersing particles are  $\ll$  than the wavelength of the falling light  $\lambda$ ; and when dissolved particles are not small with respect to  $\lambda$ . Zimm's theory of dispersion is given. 3) Sedimentation method. The mol. wt. can be determined in two ways by using an ultracentrifuge; Svedberg's formula is applied. 4) The viscometer method. The basic relation between the viscosity of the solution and the mol. wt. is given by  $[\eta] = k M_v^a$ , where  $\eta$  = coefficient of viscosity,  $[\eta]$  = real viscosity,  $M_v$  = the average viscometric mol. wt.  $k$  and  $a$  = constants depending on the high polymer - solvent system. This method does not give the real value for mol. wt. as  $k$  and  $a$  have to be determined by using another method, e.g. the osmosis method. There are 6 figures and 62 references: 13 Soviet-bloc and 49 non-Soviet-bloc. The references to the four most recent English-language publications read as follows: E. Mason, M. Kreevoy, J. Amer. Chem. Soc., 77, 5818 (1955); 4851 (1957); L. Pauling, Proc. Nat. Acad. Sci., 44, 221 (1958); M.W. Wolkenstern, J. Polym. Sci., 29, 441 (1958); C. Loucheux, G. Weill, H. Benoit, J. Chem. Phys., 55, 540 (1958).

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Basic problems of high polymer physics

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ASSOCIATION: Katedra fizyki wydziału chemicznego politechniki  
Łódzkiej (Łódź Polytechnic, Chemistry Section,  
Department of Physics)

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TITLE: Colorimetric determination of <sup>41</sup>vanadium in uranium compounds using p-methoxybenzothiohydroxamic acid

SOURCE: Nukleonika, v. 10, no. 9-10, 1965, 559-565

TOPIC TAGS: vanadium, uranium compound, colorimetric analysis, solvent extraction

ABSTRACT: The extraction and colorimetric determination of vanadium in uranium compounds are described. Vanadium with p-methoxybenzothiohydroxamic acid forms in 6N hydrochloric acid, the green compound that is extractable into chloroform and higher alcohols. The sensitivity of the reaction is equal to  $0,002 \mu\text{g V/cm}^2$  and the molar absorption coefficient equals to 20040 ( $\lambda = 372 \text{ m}\mu$ ). Ti, Fe, Mo, and Nb ions interfere with the determination of vanadium. A rapid method of eliminating the influence of these ions is described. This method was used successfully for the analysis of uranyl acetate and nitrate and  $\text{U}_3\text{O}_8$  containing  $10^{-5}$  to  $10^{-4}\%$  vanadium. Orig. art. has: 7 tables. [NA]

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